IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Marvin Siegel et al. Art Unit :
Serial No. : Examiner :
Filed : October 6, 2003
Title : INDUCTION OF A TH1-LIKE RESPONSE IN VITRO

MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Under 35 USC §120, this application relies on the earlier filing date of application serial number 09/613,303, filed on July 10, 2000. The references listed on the enclosed Form PTO-1449 were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

This statement is being filed with the application. Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 12071-002003.

Respectfully submitted,

Date: October 6, 2003

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12071-002003	Application No.
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U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,716,038	12/29/1987	Stanford et al.	424	92	
	AB	4,724,144	02/09/1988	Rook et al.	424	93	
	AC	4,918,166	04/17/1990	Kingsman et al.	530	350	
	AD	5,114,844	05/19/1992	Cohen et al.	435	7	
	AE	5,348,945	09/20/1994	Berberian et al.	514	21	
	AF	5,504,005	04/02/1996	Bloom et al.	435	253	
	AG	5,578,300	11/26/1996	Schmidt et al.	424	78.08	
	AH	5,580,563	12/03/1996	Tam	424	197	
	AI	5,599,545	02/04/1997	Stanford et al.	424	282.1	
	AJ	5,736,146	04/07/1998	Cohen et al.	424	197.11	
	AK	5,750,119	05/12/1998	Srivastava	424	277.1	
	AL	5,830,464	11/03/1998	Srivastava	424	93.71	
	AM	5,837,251	11/17/1998	Srivastava	424	193.1	
	AN	5,858,368	01/12/1999	Smith et al.	424	192.1	
	AO	5,935,576	08/10/1999	Srivastava	424	184.1	
	AP	5,948,646	09/07/1999	Srivastava	435	69.3	
	AQ	5,961,979	10/05/1999	Srivastava	424	193.1	
	AR	5,985,270	11/16/1999	Srivastava	424	93.71	
	AS	5,997,873	12/07/1999	Srivastava	424	193.1	
	AT	6,007,806	12/28/1999	Lathe et al.	424	93.2	
	AU	6,007,821	12/28/1999	Srivastava et al.	424	193.1	
	AV	6,017,540	01/25/2000	Srivastava et al.	424	193.1	
	AW	6,017,544	01/25/2000	Srivastava	424	277.1	
	AX	6,030,618	02/29/2000	Srivastava	424	184.1	
	AY	6,048,530	04/11/2000	Srivastava	424	193.1	
	AZ	6,130,087	10/10/2000	Srivastava et al.	435	372.3	
	AAA	6,136,315	10/24/2000	Srivastava	424	193.1	

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	ABB	6,139,841	10/31/2000	Srivastava	424	193.1	
	ACC	6,143,299	11/07/2000	Srivastava	424	193.1	
	ADD	6,156,302	12/05/2000	Srivastava	424	93.1	
	AEE	6,162,436	12/19/2000	Srivastava	424	193.1	
	AFF	6,168,793	01/02/2001	Srivastava	424	193.1	
	AGG	6,187,312	02/13/2001	Srivastava	424	193.1	
	AHH	6,322,790	11/27/2001	Srivastava	424	193.1	
	AII	6,335,183	01/01/2002	Young et al.	435	69.7	
	AJJ	6,338,952	01/15/2002	Young et al.	435	69.7	

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes	Translation No
	AKK	WO 85/05034	11/21/1985	PCT				
	ALL	WO 88/00974	02/11/1988	PCT				
	AMM	WO 88/05823	08/11/1988	PCT				
	ANN	WO 88/06591	09/07/1988	PCT				
	AOO	WO 89/12455	12/28/1989	PCT				
	APP	WO 90/15873	12/27/1990	PCT				
	AQQ	WO 91/02542	03/07/1991	PCT				
	ARR	WO 91/15572	10/17/1991	PCT				
	ASS	WO 92/08484	05/29/1992	PCT				
	ATT	WO 92/08488	05/29/1992	PCT				
	AUU	WO 93/17712	9/16/1993	PCT				
	AVV	WO 94/03208	02/17/1994	PCT				
	AWW	WO 94/29459	12/22/1994	PCT				
	AXX	WO 95/24923	09/21/1995	PCT				
	AYY	WO 95/31994	11/30/1995	PCT				

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	AZZ	WO 96/10421	04/11/1996	PCT				
	AAAA	WO 96/19496	6/27/1996	PCT				
	ABBB	WO 96/26277	08/29/1996	PCT				
	ACCC	WO 97/06821	02/27/1997	PCT				
	ADDD	WO 97/26910	07/31/1997	PCT				
	AEEE	WO 98/23735	06/04/1998	PCT				
	AFFF	WO 98/35705	08/20/1998	PCT				
	AGGG	WO 99/07860	02/18/1999	PCT				
	AHHH	WO 00/19828	04/13/2000	PCT				
	AIII	WO 00/23093	04/27/2000	PCT				
	AJJJ	WO 01/17554	03/15/2001	PCT				
	AKKK	WO 01/52791	07/26/2001	PCT				
	ALLL	WO 01/52877	07/26/2001	PCT				
	AMMM	WO 01/52890	07/26/2001	PCT				
	ANNN	WO 01/53457	07/26/2001	PCT				
	AOOO	WO 02/00242	01/03/2002	PCT				
	APPP	0 262 710	04/06/1988	EP				
	AQQQ	0 322 990	07/05/1989	EP				
	ARRR	2 251 186	07/01/1992	GB				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	ASSS	Agranovsky et al., "Putative 65 kDa Protein of Beet Yellows Closterovirus Is a Homologue of HSP70 Heat Shock Proteins," J. MOL. BIOL., 217:603-610 (1991)
	ATTT	Anthony et al "Priming of $CD8^+$ CTL Effector Cells In Mice By Immunization With a Stress Protein-Influenza Virus Nucleoprotein Fusion Molecule", VACCINE, 17:373-383 (1999)
	AUUU	Ardeshir et al., "A 75 Kd Merozoite Surface Protein of Plasmodium Falciparum which is Related to the 70 kd Heat-Shcok Proteins," EMBO J., 6(2):493-499 (1987)

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	AVVV	Arnosti et al., "Characterization of heat shock in Bacillus subtilis ," J. BACT., 168(3):1243-1249 (Dec. 1986)
	AWWW	Arrigo and Welch, "Characterization and Purification of the Small 28,000-Dalton Mammalian Heat Shock Protein", J. BIOL. CHEM., 262(32):15359-15369 (1987)
	AXXX	Barrios et al. "Heat Shock Proteins As Carrier Molecules: *In Vivo* Helper Effect Mediated By *Escherichia coli*GroEL and DnaK Proteins Requires Cross-Linking With Antigen", CLIN. EXP. IMMUNOL., 98:229-233 (1994)
	AYYY	Barrios et al., "Mycobacterial heat-shock proteins as carrier molecules. II: The use of the 70-kDa mycobacterial heat-shock protein as carrier for conjugated vaccines can circumvent the need for adjuvants and Bacillus Calmette Guerin priming," EUR. J. IMMUNOL., 22:1365-1372 (1992)
	AZZZ	Beech et al., "CD4+ Th2 cells specific for mycobacterial 65-kilodalton heat shock protein protect against pristane-induced arthritis," J. IMMUNOL. 159:3692-3697 (1997)
	AAAAA	Bennett et al., "Help for Cytotoxic-T-cell Responses is Mediated by CD40 Signalling," NATURE 393:478-480 (June 4, 1998)
	ABBBB	Bertelli et al., "BCG-Induced Resistance in Trypanosoma cruzi Experimental Infections," TROPENMED PARASITOL, 32:93-96 (1981)
	ACCCC	Birk et al., "T-cell autoimmunity in type 1 diabetes mellitus," CURR. OPIN. IMMUNOL., 5:903-909 (1993)
	ADDDD	Blachere et al., "Heat Shock Protein-Peptide Complexes, Reconstituted in Vitro, Elicit Peptide-specific Cytotoxic T Lymphocyte Response and Tumor Immunity," J. EXP. MED. 186(8):1315-1322 (October 20, 1997)
	AEEEE	Blander and Horwitz, "Major Cytoplasmic Membrane Protein of Legionella Pneumophila, a Genus Common Antigen and Member of the hsp 60 Family of Heat Shock Proteins, Induces Protective Immunity in a Guinea Pig Model of Legionnaires' Disease," J. CLIN. INVEST., 91:717-723 (1993)
	AFFFF	Borysiewicz et al, "A recombinant vaccinia virus encoding human papillomavirus types 16 and 18, E6 and E7 proteins as immunotherapy for cervical cancer," LANCET, 347:1523-27 (1996)
	AGGGG	Breloer et al., "In Vivo and In Vitro Activation of T Cells After Administration of Ag-Negative Heat Shock Proteins," J. OF IMMUN. 162:3141-3147 (1999)
	AHHHH	Butini et al., "Comparative Analysis of HIV-specific CTL Activity in Lymphoid Tissue and Peripheral Blood," J. CELL BIOCHEM. SUPPL. 18B Abstract J306 (1994)
	AIIII	Cain and Howett, "Preventing cervical cancer," SCIENCE, 288:1753-54 (2000)
	AJJJJ	Cassell et al., "A Phase II Study on the Postsurgical Management of Stage Malignant Melanoma With a Newcastle Disease Virus Oncolysate," CANCER, 52:856-860 (Sep. 1983)
	AKKKK	Cassell et al., "Viral Oncolysate in the Management of Malignant Melanoma, I. Preparation of the Oncolysate and Measurement of Immunologic Responses" CANCER, 40:672-679 (Aug. 1977)

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	ALLLL	Catelli et al., "The common 90-kd protein component of non-transformed `8S` steroid receptors is a heat-shock protein", EMBO J., 4(12):3131-3135 (1985)
	AMMMM	Chandrasekhar et al., "Purification and Properties of the groES Morphogenetic Protein of Escherichia coli", J. BIOL. CHEM., 261(26):12414-12419 (1986)
	ANNNN	Chen et al., "Human 60-kDa Heat-Shock Protein: A Danger Signal to the Innate Immune System," J. OF IMMUNOL. 162:3212-3219 (1999)
	AOOOO	Chu et al "Cancer Immunotherapy Using Adjuvant-free, Fusion Protein Encoding M. bovis BCG HSP65 and HPV16 E7", FASEB JOURNAL, 12(5):A909 (March 20, 1998)
	APPPP	Chu et al. "Immunotherapy of a Human Papillomavirus (HPV) Type 16 E7-Expressing Tumour By Administration of Fusion Protein Comprising *Mycobacterium bovis* Bacille Calmette-Guérin (BCG) hsp65 and HPV16 E7", CLIN. EXP. IMMUNOL., 121:216-225 (2000)
	AQQQQ	Cohen et al., "Immunity to 60 kDa heat shock protein in autoimmune diabetes," DIAB. NUTR. METAB., 9(4):229-232 (1996)
	ARRRR	Cohen, "Jitters jeopardize AIDS vaccine trials ," SCIENCE, 262: 980-981 (1993)
	ASSSS	Dahlseid et al., "PBP74, a new member of the mammalian 70-kDa heat shock protein family, is a mitochondrial protein," MOL BIOL CELL. 5(11):1265-1275 (1994)
	ATTTT	de Gruijl et al., "T cell proliferative responses against human papillomavirus type 16 E7 oncoprotein are most prominent in cervial intraepithelial neoplasia patients with a persistent viral infection," JOURNAL OF GENERAL VIROLOGY, 77:2183-2191 (1996)
	AUUUU	De Velasco et al., "Synthetic Peptides Representing T-Cell Epitopes Act as Carriers in Pneumococcal Polysaccharide Conjugate Vaccines," INFECT. & IMMUN., 63:961-968 (1995)
	AVVVV	Del Guidice, "Hsp70: a carrier molecule with built-in adjuvanticity," EXPERIENTIA, 50:1061-1066 (1994)
	AWWWW	Del Guidice et al., "Heat shock proteins as "super"-carriers for sporozoite peptide vaccines?", RESEARCH IN IMMUNOL., 162:703-707 (1991)
	AXXXX	Del Guidice et al., "Priming to Heat Shock Proteins in Infants Vaccinated against Pertussis," J. IMMUNOL., 150(5):2025-2032 (1993)
	AYYYY	DeNagel et al., "Heat shock proteins in Immune Responses," CRIT. REV. IMMUNOL., 13(1):71-81 (1993)
	AZZZZ	Doherty et al, Evasion of host immune responses by tumours and viruses, "Vaccines against virally induced cancers," Wiley, Chicester (Ciba Foundation Symposium 187), pp. 245-260. See page 245, Abstract
	AAAAAA	DuBois et al., "Isolation of a Tumor-Associated Transplantation Antigen (TATA) From an SV40-Induced Sarcoma. Resemblance to the TATA of Chemically Induced Neoplasms," INT. J. CANCER, 34:561-566 (1984)
	ABBBBB	Dubois et al., "Protective immunization of the squirrel monkey against asexual blood stages of *Plasmodium falciparum* by use of parasite protein fractions," PROC. NATL. ACAD. SCI., 81:229-232 (1984)

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	ACCCCC	Elias et al., "Induction and therapy of autoimmune diabetes in the non-obese diabetic (NOD/Lt) mouse by a 65-kDa heat shock protein," PROC. NATL. ACAD. SCI. USA, 87:1576-1580 (1990)
	ADDDDD	Falk et al., "Cell Mediated Immunity to Human Tumors," ARCH. SURG., 107:261-265 (Aug. 1973)
	AEEEEE	Ferrero et al., "The GroES homolog of *Helicobacter pylori* confers protective immunity against mucosal infection in mice," PROC. NATL. ACAD. SCI. USA, 92:6499-6503 (1995)
	AFFFFF	Flaherty et al., "Three-dimensional Structure of the ATPase Fragment of a 70K Heat-Shock Cognate Protein," NATURE 346:623-628
	AGGGGG	Fox, "No Winners Against AIDS", BIOTECHNOLOGY, 12:128 (1994)
	AHHHHH	Friedland et al., "Mycobacterial 65-kD heat shock protein induces release of proinflammatory cytokines from human monocytic cells," CLIN. EXP. IMMUNOL., 91:58-62 (1993)
	AIIIII	Galloway, "Papillomavirus oncoproteins as vaccine candidates," LANCET, 347:1498-99 (1996)
	AJJJJJ	Gomes et al., "Heat shock protein synthesis during development in Caulobacter crescentus," J. BACT., 168(2):923-930 (Nov. 1986)
	AKKKKK	Gomez et al., "Vaccination with Recombinant Heat Shock Protein 60 from *Histoplasma capsulatum* Protects Mice against Pulmonary Histoplasmosis," INFECT. & IMMUN., 63:2587-2595 (1995)
	ALLLLL	Haanen et al., "Selection of a human T helper type 1-like T cell subset by mycobacteria," J. EXP. MED., 174:583-592 (1991)
	AMMMMM	Haghbin et al., "Immunotherapy with Oral BCG and Serial Immune Evaluation in Childhood Lymphoblastic Leukemia Following Three Years of Chemotherapy," CANCER, 46:2577-2586 (Dec. 1980)
	ANNNNN	Hastie et al., "HSP27 Elevated in Mild Allergic Inflammation Protects Airway Epithelium from H2SO4 Effects," AM J. PHYSIOL., 273 (Lung Cell. Mol. Physiol. 17):L401-L409 (1997)
	AOOOOO	Haynes, "Scientific and Social Issues of Human Immunodeficiency Virus Vaccine Development", SCIENCE, 260:1279-1286 (1993)
	APPPPP	Huang et al., "In Vivo Cytotoxic T Lymphocyte Elicitation by Mycobacterial Heat Shock Protein 70 Fusion Proteins Maps to a Discrete Domain and Is CD4 T Cell Independent," J. EXP. MED. 191(2):403-408 (January 17, 2000)
	AQQQQQ	Hudson et al., "Active Specific Immunotherapy for Ovarian Cancer," THE LANCET, 2:877-879 (Oct. 23, 1976)
	ARRRRR	Hughes et al., "A Study in Clinical Cancer Immunotherapy," CANCER, 26:269-278 (Aug. 1970)
	ASSSSS	Humphrey et al., "Adjuvant Immunotherapy for Melanoma," J. OF SUR. ONCOL., 25:303-305 (1984)
	ATTTTT	Hunt and Calderwood, "Characterization and Sequence of a Mouse hsp70 Gene and Its Expression in Mouse Cell Lines," GENE 87:199-204 (1990)

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	AUUUUU	Husson and Young, "Genes for the major protein antigens of Mycobacterium tuberculosis: The etiologic agents of tuberculosis and leprosy share an immunodominant antigen," PROC. NATL. ACAD. SCI. USA, 84:1679-1683 (1987).
	AVVVVV	Huygen et al., "Spleen cell cytokine secretion in Mycobacterium bovis BCG-infected mice," INFECTION AND IMMUNITY, 60(7):2880-2886 (1992)
	AWWWWW	Jacquier-Sarlin, "Protective effects of hsp70 in inflammation," EXPERIENTIA, 50(11-12):1031-1038 (1994)
	AXXXXX	Jarecki-Black et al., "The Effect of BCG-Vaccine Upon Experimental Visceral Leishmaniasis in Hampsters," ANN. CLIN. LAB. SCI., 14:464-466 (1984)
	AYYYYY	Jindal, "Heat Shock Proteins: Applications in health and disease," TRENDS IN BIOTECH, 14(1):17-20, 1996
	AZZZZZ	Jondal et al., "MHC Class I-Restricted CTL Responses to Exogenous Antigens," IMMUNITY 5:295-203 (October 1996)
	AAAAAAA	Kaufmann et al., "Enumeration of T cells reactive with Mycobacterium tuberculosis organisms and specific for the recombinant mycobacterial 64-kDa protein", EUR. J. IMMUNOL., 17:351-357 (1987)
	ABBBBBB	Kaufmann et al., "Heat-shock protein 60: implications for pathogenesis of and protection against bacterial infections," IMMUNOLOGICAL REVIEWS, 121:67-90 (1991)
	ACCCCCC	Kiessling et al., "Role of hsp60 during autoimmune and bacterial inflammation," IMMUNOLOGICAL REVIEWS, 121:91-111 (1991)
	ADDDDDD	Kimmig and Wenk, "Suppression of Parasitaemia from Litomosoides carinii by Immunisation with BCG and Microfilariae," Z. PARASITENKD, 67:317-327 (1982)
	AEEEEEE	Kol et al., "Chlamydial and Human Heat Shock Protein 60s Activate Human Vascular Endothelium, Smooth Muscle Cells, and Macrophages," J. CLIN. INVEST. 103:571-577 (1999)
	AFFFFFF	Konen-Waisman et al., "Self and Foreign 60-Kilodalton Heath Shock Protein T Cell Epitope Peptides Serve As Immunogenic Carriers for a T Cell-Independent Sugar Antigen," JOURN. IMMUNOL., 154:5977-5985 (1995)
	AGGGGGG	Konen-Waisman et al., "Self Heat-Shock Protein (hsp60) Peptide Serves in a Conuugate Vaccine against a Lethal Pneumococcal Infection," J. INFECT. DISEASES 179:403-413 (1999)
	AHHHHHH	La Thangue and Latchman, "A Cellular Protein Related to Heat-Shocked Protein 90 Accumulates during Herpes Simplex Virus Infection and Is Overexpressed in Transformed Cells," EXPERIMENTAL CELL RESEARCH, 178:169-179 (1988)
	AIIIIII	Lamb et al., "Stress Proteins may Provide a Link Between the Immune Response to Infection and Autoimmunity", INT'L. IMMUN., 1(2):191-196 (1989)
	AJJJJJJ	Layton et al., Induction of HIV-Specific Cytotoxic T lymphocytes In Vivo with Hybrid HIV-1 V3:Ty-Virus-Like-Particles, J. IMMUNOLOGY, 151(2):1097-1107 (Jul. 1993)
	AKKKKKK	Leung et al., "The immunobiology of heat shock proteins," J. INVESTIG. ALLERGOL. CLIN. IMMUNOL., 1(1):23-30, (1991)

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	ALLLLLL	Levi et al., "Synthetic recombinant influenza vaccine induces efficient long-term immunity and cross-strain protection," VACCINE, 14:85-92 (1996)
	AMMMMMM	Li and Srivastava, "Tumor Rejection Antigen gp96/grp94 is an ATPase: Implications for Protein Folding and Antigen Presentation," THE EMBO JOURNAL, 12(8):3143-3151 (1993)
	ANNNNNN	Lindquist and Craig, "The Heat-Shock Proteins," ANNU. REV. GENET., 22:631-677 (1988)
	AOOOOOO	Lussow et al., "Mycobacterial heat-shocked proteins as carrier molecules," EUR. J. IMMUNOL, 21:2297-2302 (1991)
	APPPPPP	Maytin, "Heat shock proteins and molecular chaperones: implications for adaptive responses in the skin," J. INVEST. DERMATOL., 104:448-455 (1995)
	AQQQQQQ	McCulloch et al., "Recurrent Malignant Melanoma: Effect of Adjuvant Immunotherapy on Survival," CAN. MED. ASSOC. J., 117:33-36 (Jul. 1977)
	ARRRRRR	Miller et al., "Immunotherapy in autoimmune diseases," CURR. OPINION IN IMMUN., 3:936-940 (1991)
	ASSSSSS	Minowada et al., "Clinical implications of the stress response," J. CLIN. INVEST., 95:3-12 (1995)
	ATTTTTT	Moré et al., Activation of cytotoxic T cells in vitro by recombinant gp96 fusion proteins irrespective of the `fused` antigenic peptide sequence, IMMUNOLOGY LETTERS, 69:275-282 (1999)
	AUUUUUU	Motal, "Glycosylphosphatidylinositol-linked Db does not induce an influenza-specific cytotoxic T lymphocyte response or recycle membrane-bound peptides," EUR. J. IMMUNOL., 25:1121-1124 (1995)
	AVVVVVV	Murphy and Lefford, "Host Defenses in Murine Malaria: Induction of a Protracted State of Immunity with a Formalin-Killed Plasmodium berghei Blood Parasite Vaccine," INFEC. IMMUN., 22:798-803 (1978)
	AWWWWWW	Murray et al., "Viral Oncolysate in the Management of Malignant Melanoma, II. Clinical Studies" CANCER, 40:680-686 (Aug. 1977)
	AXXXXXX	Nadler et al., "Interaction of the Immunosupressant Deoxyspergualin with a Member of the Hsp70 Family of Heat Shock Proteins," SCIENCE, 258:484-486 (1992)
	AYYYYYY	Nair et al., "Calreticulin Displays in Vivo Peptide-Binding Activity and Can Elicit CTL Responses Against Bound Peptides," J. IMMUN. 162:6426-6432 (1999)
	AZZZZZZ	Noll and Autenrieti, "Immunity against *Yersinia enterocolitica* by Vaccination with *Yersinia* HSP60 Immunostimulating Complexes or *Yersinia* HSP60 plus Interleukin-12", INFECT. & IMMUN., 64:2955-2961 (1996)
	AAAAAAAA	Oettgen and Old, "Chapter 6: The History of Cancer Immunotherapy." IN BIOLOGIC THERAPY OF CANCER, De Vita, V.T., Hellman, S. and Rosenberg, S.A., eds., (London: J.B. Lippincott) pp. 98-103 (1991)
	ABBBBBBB	Orme et al., "Cytokine secretion by CD4 T lymphocytes acquired in response to Mycobacterium tuberculosis infection," J. IMMUNOL., 151(1):518-525 (1993)

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	ACCCCCCC	Palladino et al., "Expression of a Shared Tumor-Specific Antigen by Two Chemically Induced BALB/c Sarcomas," CANCER RESEARCH, 47:5074-5079 (Oct. 1987)
	ADDDDDDD	Peetermans et al., "Mycobacterial heat-shock protein 65 induces proinflammatory cytokines but does not activate human mononuclear phagocytes," SCAN. J. IMMUNOL., 39:613-617 (1994)
	AEEEEEEE	Pinskey et al., "Intravesical Admininstration of Bacillus Calmette-Guerin in Patients with Recurrent Superficial Carcinoma of the Urinary Bladder: Report of a Prospective, Randomized Trail," CANCER TREAT. REP., 69:47-53 (Jan. 1985)
	AFFFFFFF	Polla et al., "Heat shock proteins and inflammation," CURRENT TOPICS IN MICROBIOLOGY AND IMMUNOLOGY, 167:93-105 (1991)
	AGGGGGGG	Polla et al., "Regulation and functions of stress proteins in allergy and inflammation," CLINICAL AND EXPERIMENTAL ALLERGY, 23:548-556 (1993)
	AHHHHHHH	Polla et al., "Spontaneous heat shock protein synthesis by alveolar macrophages in interstitial lung disease associated with phagocytosis of eosinophils," EUR. RESPIR. J., 6:483-488 (1993)
	AIIIIIII	Rico et al., "Characterization of the Immunostimulatory Properties of Leishmania infantum HSP70 by Fusion to the Escherichia coli Maltose-Binding Protein in Normal nu/nu BALB/c Mice," Infection and Immunity 66:347-352 (January 1998)
	AJJJJJJJ	Roman et al., "Synthetic peptides non-covalently bound to bacterial hsp 70 elicit peptide-specific T-cell responses in vivo," IMMUNOLOGY, 88(4):487-492 (1992)
	AKKKKKKK	Schild et al., "Stress Proteins and Immunity Mediated by Cytotoxic T Lymphocytes," CURRENT OPINION IN IMMUN. 11:109-113 (1999)
	ALLLLLLL	Schoenberger et al., "T-cell Help for Cytotoxic T Lymphocytes is Mediated by CD40-CD40L Interactions," NATURE 393:480-483 (June 4, 1998)
	AMMMMMMM	Shinnick et al., "The Etiologic Agents of Leprosy and Tuberculosis Share an Immunoreactive protein Antigen with the Vaccine Strain Mycobacterium bovis BCG", INFECT. AND IMMUN., 55(8):1932-1935 (1987)
	ANNNNNNN	Silverstein, "The History of Immunology," IN FUNDAMENTAL IMMUNOLOGY, 2.sup.nd Edition, Paul, W.E., ed., (NY:Raven Press), pp. 21, 23-24 (1989)
	AOOOOOOO	Sparks et al., "Immunology and Adjuvant Chemoimmunotherapy of Breast Cancer," ARCH SURG, 111:1057-1062 (Oct. 1976)
	APPPPPPP	Spencer et al., "Nonspecific Protection of Mice against Influenza Virus Infection by Local or Systemic Immunization with Bacille Calmette-Guerin," J. INFECT, 171-175 (August 1977)
	AQQQQQQQ	Srivastava and Udono, "Heat Shock Protein-Peptide Complexes in Cancer Immunotherapy," CURRENT OPINION IN IMMUN., 6:728-732 (1994)

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	ARRRRRRR	Srivastava and Old, "Individually Distinct Transplantation Antigens of Chemically Induced Mouse Tumors," IMMUNOLOGY TODAY, 9:78-83 (Mar. 1988)
	ASSSSSSS	Srivastava and Das, "The Serologically Unique Cell Surface Antigen of Zajdela Ascitic Hepatoma is Also Its Tumor-Associated Transplantation Antigen," INT. J. CANCER, 33:417-422 (1984)
	ATTTTTTT	Srivastava and Maki, "Stress-Induced Proteins in Immune Response to Cancer," CURR. TOP. OF MICROBIOL. IMMUNOL., 167:109-123 (1991)
	AUUUUUUU	Srivastava et al., "Tumor Rejection Antigens of Chemically Induced Sarcomas of Inbred Mice," PROC. NATL. ACAD. SCI., USA, 83:3407-3411 (May 1986)
	AVVVVVVV	Sturrock et al., "Attempts to Induce Resistance to Schistosoma mansoni and S. haematobium in Kenyan Baboons (Papio anubis) Using Non-Specific Immunostimulants," PARASITOLOGY, 90:101-110 (1985)
	AWWWWWWW	Suto and Srivastava, "A Mechanism for the Specific Immunogenicity of Heat Shock Protein-Chaperoned Peptides," Science 269:1585-1588 (September 15, 1995)
	AXXXXXXX	Suzue et al. "Adjuvant-Free hsp70 Fusion Protein System Elicits Humoral and Cellular Immune Responses to HIV-1 p24", THE JOURNAL OF IMMUNOLOGY, 156:873-879 (1996)
	AYYYYYYY	Suzue et al., "Heat Shock Fusion Proteins as Vehicles for Antigen Delivery Into the Major Histocompatibility Complex Class I Presentation Pathway," PROC. NATL. ACAD. SCI. USA, 94:13146-13151 (Nov. 1997)
	AZZZZZZZ	Tamura et al., "Immunotherapy of Tumors with Autologous Tumor-Derived Heat Shock Protein Preparations," SCIENCE 278:117-120 (October 3, 1997)
	AAAAAAAAA	Thole et al., "Antigenic relatedness of a strongly immunogenic 65 kDA mycobacterial protein antigen with a similarly sized ubiquitous bacterial common antigen", MICROBIAL PATHOGENESIS, 4:71-83 (1988)
	ABBBBBBBB	Thole et al., "Characterization, Sequence Determination, and Immunogenicity of a 64-Kilodalton Protein of Mycobacterium bovis BCG Expressed in Escherichia coli K-12," INFECTION & IMMUNOL., 55(6):1466-1475 (1987)
	ACCCCCCCC	Udono et al., "Cellular Requirements for Tumor-Specific Immunity Elicited by Heat Shock Proteins: Tumor Rejection Antigen gp96 Primes CD8 T Cells in vivo," PROC. NATL. ACAD. SCI. USA 91:3077-3081 (April 1994)
	ADDDDDDDD	Udono and Srivastava, "Heat Shock Protein 70-associated Peptides Elicit Specific Cancer Immunity," J. EXP. MED., 178:1391-1396 (Oct. 1993)
	AEEEEEEEE	Ullrich et al., "A Mouse Tumor-Specific Transplantation Antigen is a Heat Shock-Related Protein," PROC. NATL. ACAD. SCI., USA, 83:3121-3125 (May 1986)
	AFFFFFFFF	van Eden et al., "Cloning of the mycobacterial epitope recognized by T lymphocytes in adjuvant arthritis", NATURE, 331(14):171-173 (1988)
	AGGGGGGGG	Verdegaal et al., "Heat Shcok Protein 65 Induces CD62e, CD106, and CD54 on Cultured Human Endothelial Cells and Increases Their Adhesiveness for Monocytes and Granulocytes," JOUR. IMMUNOL., 157:369-376 (1996)

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	AHHHHHHHH	Vignola et al., "Increased expression of heat shock protein 70 on airway cells in asthma and chronic bronchitis," AM. J. RESPIR. CELL MOL. BIOL., 13:683-691 (1995)
	AIIIIIIII	Vodkin and Williams, "A Heat Shock Operon in Coxiella burnetii Produces a Major Antigen Homologous to a Protein in Both Mycobacteria and Escherichia coli", J. OF BACTERIOLOGY, 170(3):1227-1234 (1988)
	AJJJJJJJJ	Voellmy et al. "Isolation and functional analysis of a human 70,000-dalton heat shock protein gene segment," PROC NATL ACAD SCI U S A. 82(15):4949-53 (1985)
	AKKKKKKKK	Welch et al., "Biochemical characterization of the mammalian stress proteins and identification of two stress proteins as glucose- and Ca2+-ionophore-regulated proteins," J. BIOL. CHEM., 258(11):7102-7111 (1983)
	ALLLLLLLL	Welch and Feramisco, "Purification of the Major Mammalian Heat Shock Proteins", J. BIOL. CHEM., 257(24):14949-14959 (1982)
	AMMMMMMMM	Welch and Feramisco, "Rapid Purification of Mammalian 70,000-Dalton Stress Proteins: Affinity of the Proteins for Nucleotides", MOL. CELL. BIOL., 5(6):1229-1237 (1985)
	ANNNNNNNN	Young et al., "The 65kDa antigen of mycobacteria--a common bacterial protein?", IMMUNOL. TODAY, 8(7-8):215-219 (1987)
	AOOOOOOOO	Young et al., "Genes for the major protein antigens of the leprosy parasite mycobacterium leprae," NATURE, 316:450-452 (1985)
	APPPPPPPP	Young et al., "Stress proteins are immune targets in leprosy and tuberculosis," PROC. NATL. ACAD. SCI. USA, 85:4267-4270 (1988)
	AQQQQQQQQ	Young, "Stress Proteins and Immunology," ANNU. REV. IMMUNOL., 8:401-420 (1990)
	ARRRRRRRR	Zhou, G., "New Fusion Protein for Immunotherapy of Venereal Disease and Cancer - Is a Heat Shock Protein of Mycobacterium Bovis", Database WPI, DERWENT PUBLICATIONS LTD., XP002154481, (March 29, 2000), Abstract
	ASSSSSSSS	Zhu et al., "Structural Analysis of Substrate Binding by the Molecular Chaperone DnaK," SCIENCE 272:1606-1614 (June 14, 1996)
	ATTTTTTTT	Zylicz et al., "The grpE Protein of Escherichia coli", J. BIOL. CHEM., 262(36):17437-17442 (1987)
	AUUUUUUUU	Zylicz and Georgopoulos, "Purification and Properties of the Escherichia coli dnaK Replication Protein", J. BIOL. CHEM., 259(14):8820-8825 (1984)

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